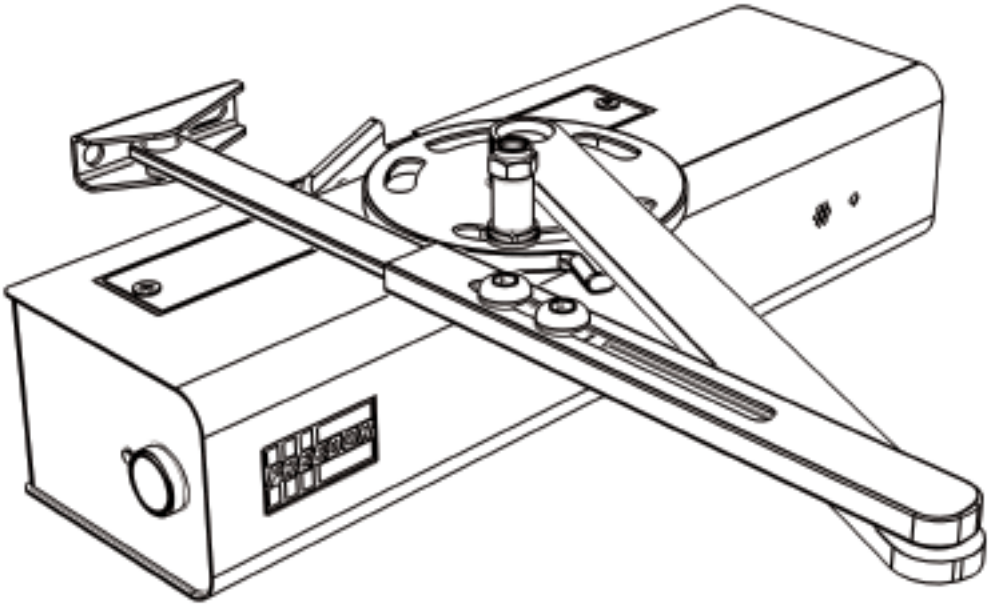
FREEDOR

Fitting and Operating Guide

plus

Maintenance Test Record



Keep this guide in a safe place.

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Manufacturer's Classification:-
As required By EN 1154:1997 and EN 1155:1997
ID of Certification Body: 1121
Registered Address:- Fireco Ltd., 30 New Road, BRIGHTON BN1 1BN, UK
Power size:- Minimum 3 to Maximum 4
Manufactured in the UK
Tested and found to comply with all the relevant clauses of those standards harmonised under the CPD (EU Construction Products Directive)

EN 1154:1997	3	8	3 to 4	1	1	0
EN 1155:1997	3	8	3 to 4	1	1	0

Introduction and Glossary

Freedor is a battery operated electrically powered free-swing device designed to allow users to hold open a fire door safely and legally. It will automatically release upon "hearing" the fire alarm.

It is recommended that a fire door is not retained at an angle of less than 65 degrees.

Glossary of Terms used in this guide.

Set Angle - The position of the radial arm bolt on the radial arm will determine the angle at which Freedor will enter free-swing mode.

Door closer mode - The default mode for Freedor. No matter what angle Freedor is opened to, it will close the door.

Free-swing mode - If Freedor is in the free-swing mode, it will act as if there is no door closer fitted, after it is opened to the set angle.

Fire Alarm mode - Upon detecting the noise of a fire alarm, Freedor will sound ten "Hi-Lo" tones whilst flashing the LED red. Freedor will cause the door to close if it is being held open and then sound ten "Lo-Hi" tones to indicate closure due to the fire alarm.

Fail-to-Safe mode - If Freedor fails a self-test, it will fail-to-safe and close the door. The unit will then start to beep and flash the LED dependant on the error. During this mode, the reset button will not be useable and Freedor will not hold the door open until the error has been cleared.

Reset Button - Depressing the reset button will change the mode that Freedor is currently in. The button must be depressed for at least 1 second to avoid accidental usage and will take action upon release. This button will become disabled during fail-to-safe mode and will be temporarily disabled for 10 seconds after use.

LED - Light Emitting Diode. Adjacent to the reset button is a bi-colour LED which illuminates red or green. The LED colour flashes according to the Freedor's status.

Battery tamper microswitch - Upon connection of the battery pack and securing of the two battery lift screws, a tamper switch will become depressed. If the battery lift is unscrewed during operation, the tamper switch will cause Freedor to enter fail-to-safe mode and force the door to close.

PCB (Printed Circuit Board) - The PCB houses all the electronics used to make Freedor function. It sits above the magnet assembly and houses the DIP switches and variable pot. resistor which govern the night-time release/self-test muting and audio sensitivity respectively.

Contents of the Box

Please check that you have all of the contents listed below.

The Freedor box contains:

1 x Freedor unit

1 x User Guide

1 x Fitting Template

1 x Closer Arm Pack

1 x Parallel Arm Bracket

1 x Battery Pack

1 x Freedor Adhesive Logo

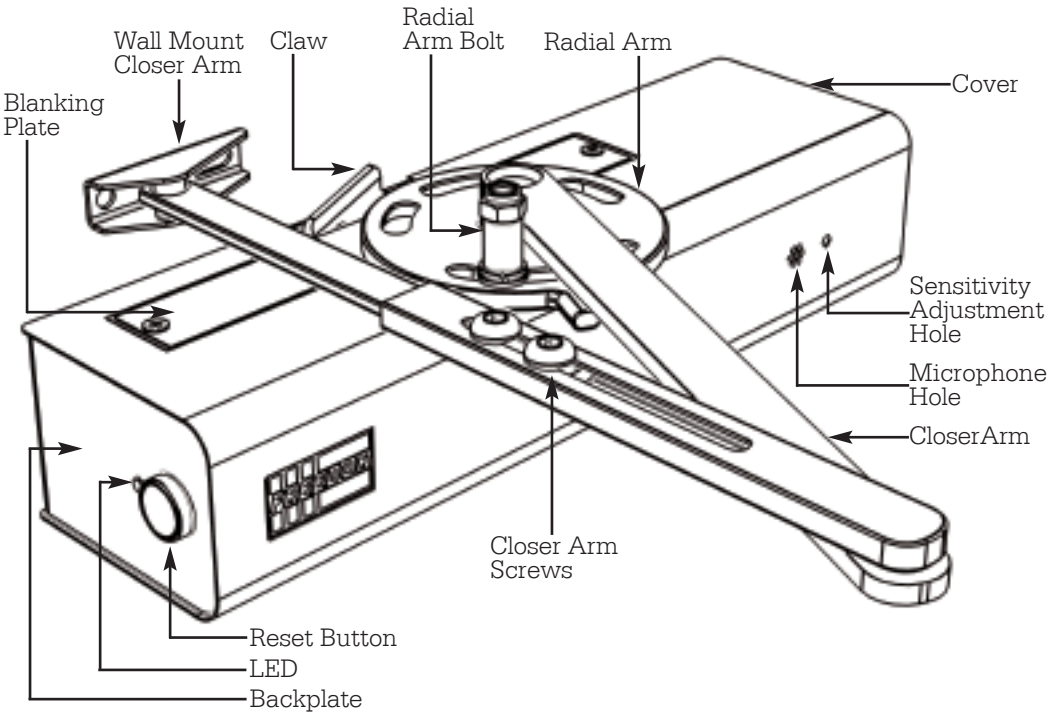
1 x Radial Arm

1 x Radial Arm Bolt and Radial Arm Pivot Bag contains: 1 x Radial Arm Assembly, 1 x Radial Arm Pivot Assembly

1 x Freedor Body and Arm Fixtures contains: 4 x No. 8 Screw, 2 x No. 10 PH Screw, 4 x No. 10 CSK Screw, M5 Short PH Screw, 1 x Black Plastic Screwdriver

Tools and Equipment Required:

- Pozidriv No. 2 screwdriver
- Flat-blade screwdriver (no wider than 6mm)
- Electric drill
- Drill bits: 3mm diameter
- 11mm socket and ratchet
- 13mm spanner
- Stud and cable detector
- Marker pen
- Safety goggles



Prior to Installation

Please ensure the following:

1. That a suitable Automatic Fire Detection alarm system is installed;

2. The Fire Alarm system is working correctly, i.e. the sounders work when activated;

3. The fire door closes tightly against the frame whilst checking the fire door is fully compliant as intended;

4. Freedor is of a suitable power size for the door it is to be installed upon;

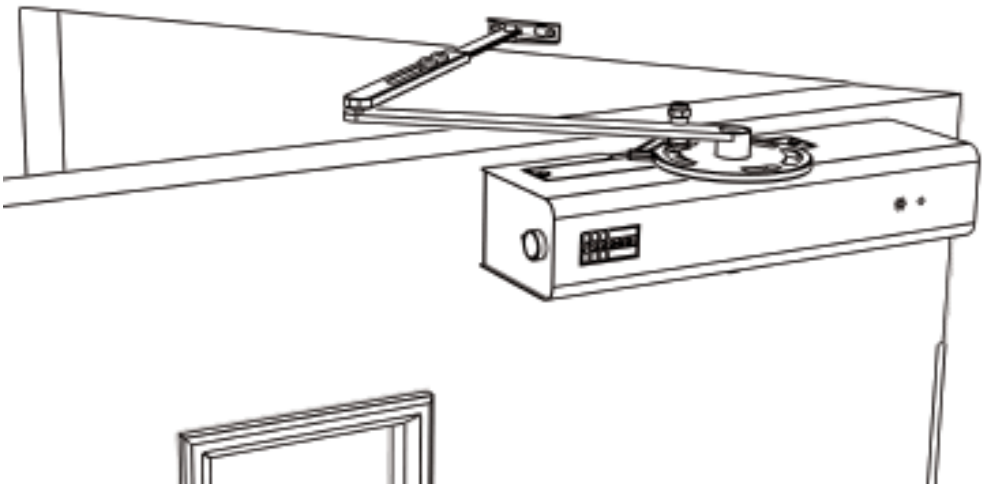
5. Installation points for Freedor are checked for interferences or danger, i.e. wiring;

6. The fire door is suitable for Freedor installation. In a power size 4 installation, Freedor is suitable for fire doors up to 1100mm wide and 80kg.

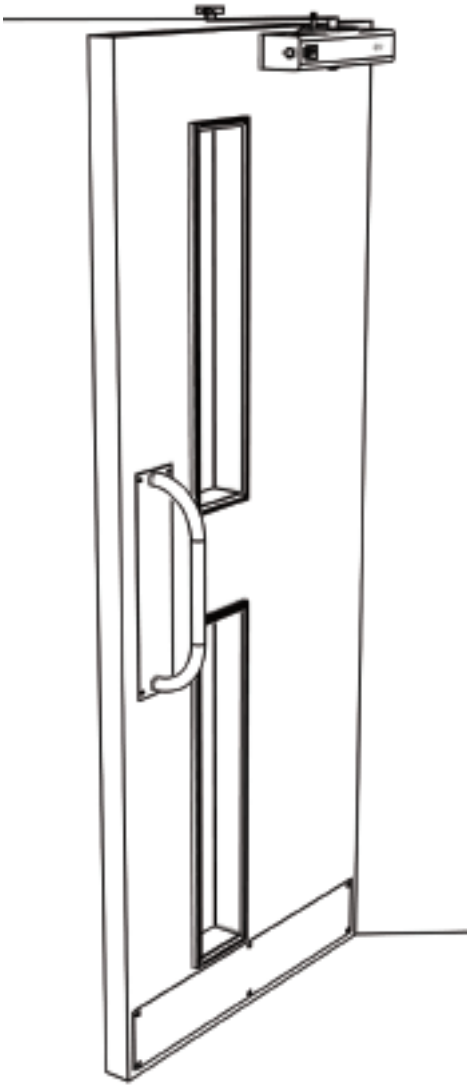
7. An internal stop should be installed to prevent Freedor being opened past its maximum opening angle; i.e. 105 degrees when installed on the pull side and 135 degrees when installed on the push side. The stop must be of a standard design and well fixed.

8. Freedor should be included in your Fire Risk Assessment (as required by the Fire Precautions [Workplace] Regulations 1997, also required by the Regulatory Reform (Fire Safety) Order 2006).

9. When Freedor is holding a fire door open, the Freedor "listens" continually for the sound of a fire alarm. When the alarm sounds, Freedor will verify the alarm over a 20 second period and then cause the fire door to close.



Important Information



Freedor must only be used for the purpose for which it is designed. It is not suitable for external use. Read this guide and follow the instructions carefully. Keep this guide in a safe place e.g. in your Fire Risk Assessment file, for future reference.

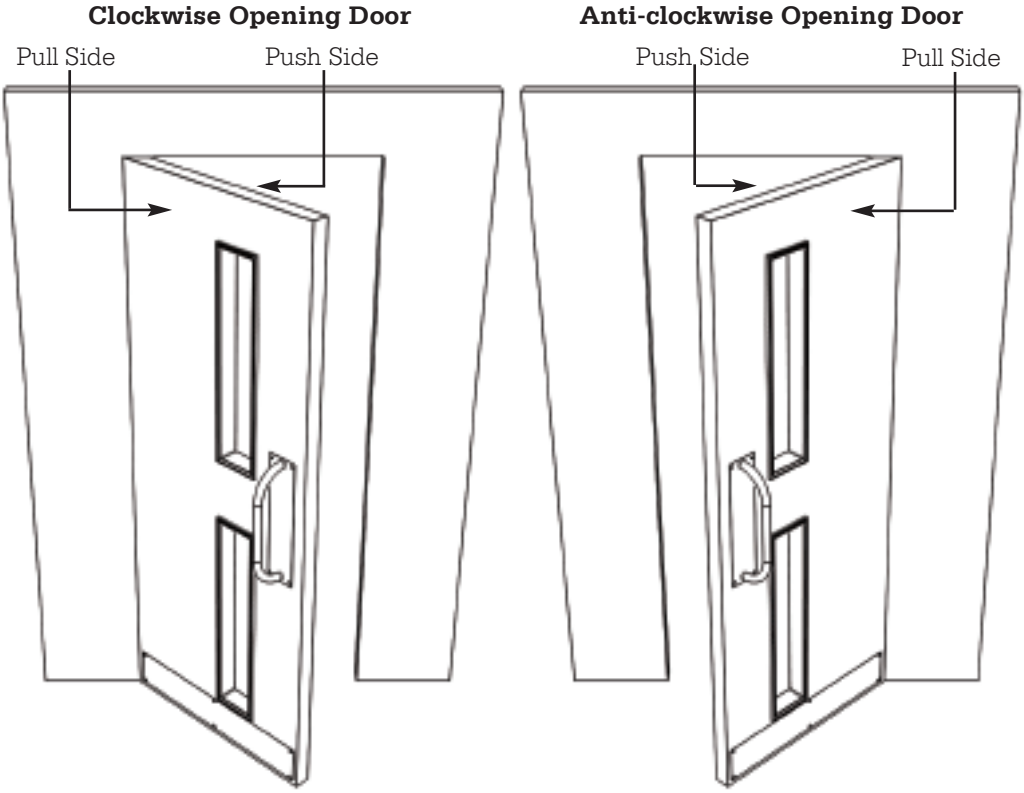
Freedor, when installed correctly, complies with BS 7273-4 Category C.

Supplementary information about the sound of a fire alarm: The British Standard for fire alarm installation, BS 5839-1: 2002, (Clause 16.2), states:

The sound pressure level of alarm signals should be generally, throughout all accessible areas of the building not less than 65dB (A) ... where the sound pressure level of background noise is greater than 60dB (A), the sound pressure level of the fire alarm signal should be 5dB above the sound pressure level of the background noise.

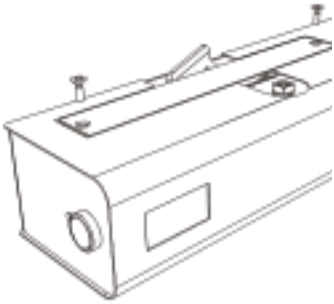
Door Type and Installation Position

Freedor can be installed in one of four positions; clockwise or anti-clockwise opening doors, and on the pull side or push side of the door. Using the diagram below, determine where you wish Freedor to be installed.



During the installation process, the method for installing Freedor will differ dependant on which side of the door it is to be installed. If the title of the installation section of this guide mentions a specific side, make sure it is the correct side for the installation. This rule also applies to various steps which will present a “pull” and “push” side option. If the installation section does not mention a specific side, it is correct to follow for either installation type.

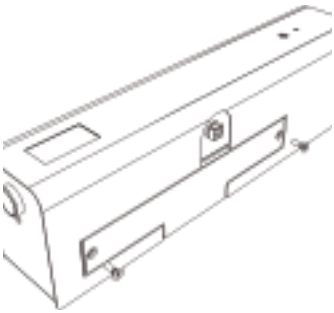
Preparing Freedor



Freedor requires minor dis-assembly to prepare it for installation upon the door. Follow the instructions detailed below to prepare Freedor for installation.

1. Remove the Freedor body from under the top tier of packaging.

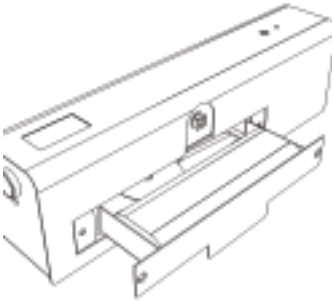
2. Unscrew the 2 screws holding down the blanking plate and lift it away.



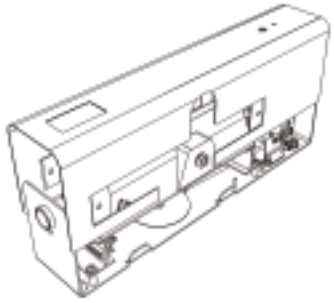
3. Unscrew the 2 screws holding the battery lift and slide it gently to expose the battery pack.

4. Remove the battery pack.

5. Gently push the battery lift legs toward each other so that they can clear the cover and remove the battery lift.

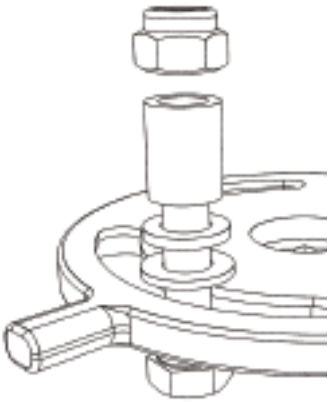


6. Once the 4 holding screws are removed from the cover (2 from the blanking plate, 2 from the battery lift), the cover can be removed.



Installation - Radial Arm Set-up

Pull Side

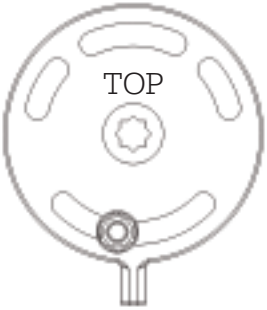


1. Remove the radial arm and the radial arm bolt assembly from the packaging. The radial arm bolt assembly contains: 1 x M8 Bolt, 1 x M8 Washer, 1 x M8 Spring Washer, 1 x Metal Sleeve and 1 x M8 Nyloc Nut

2. Using the diagrams below, choose the angle for the door to enter free-swing mode and insert the bolt through the radial arm in the position. The diagrams show the minimum, maximum and right-angle installation points for the radial arm bolt, however the bolt can be installed at any point between the minimum and maximum points.

3. Assemble the radial arm bolt by sliding the washer, spring washer, sleeve and then nyloc nut onto the bolt. Tighten down the nut to fasten the bolt to the radial arm, ensuring the spring washer is flat (locked).

Clockwise Opening



65 degree set angle (min.)

90 degree set angle

105 degree set angle (max.)

Anti-clockwise Opening

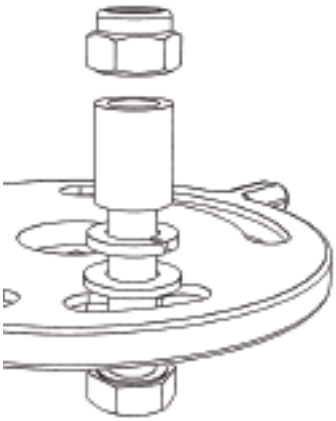
65 degree set angle (min.)

90 degree set angle

105 degree set angle (max.)

Installation - Radial Arm Set-up

Push Side



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2. Using the diagrams below, choose the angle for the door to enter free-swing mode and insert the bolt through the radial arm in the position. The diagrams show the minimum, maximum and right-angle installation points for the radial arm bolt, however the bolt can be installed at any point between the minimum and maximum points.

3. Assemble the radial arm bolt by sliding the washer, spring washer, sleeve and then nyloc nut onto the bolt. Tighten down the nut to fasten the bolt to the radial arm, ensuring the spring washer is flat (locked).

Clockwise Opening

85 degree set angle (min.)

90 degree set angle

95 degree set angle (max.)

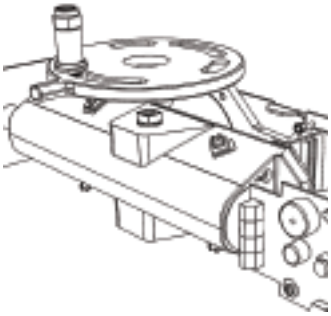
Anti-clockwise Opening

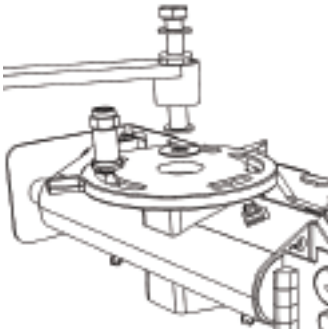
85 degree set angle (min.)

90 degree set angle

95 degree set angle (max.)

Installation - Closer Arm Installation





1. Place the radial arm with the newly fitted radial arm bolt on the square pinion of the closer so that the radial arm nib sits at a right angle to the backplate.

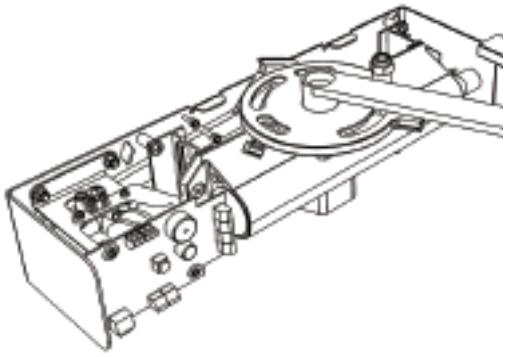
2. Take the largest metal washer from the door closer arm pivot pack and place it on the central recess of the radial arm.

3. Push the nylon shoulder washer into the door closer arm from the flat bottom side. Place the door closer arm atop the radial arm, ensuring the door closer arm sits between the Freedor PCB and the radial arm bolt.

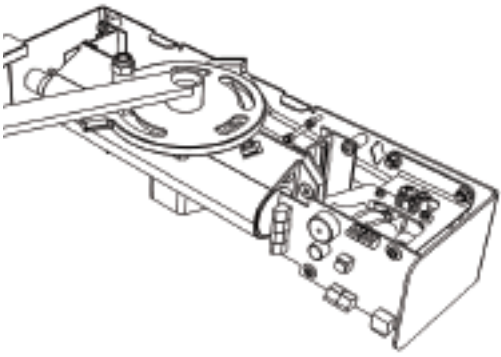
4. Place the nylon washer and metal washer into the door closer arm (in that order). Tighten the door closer arm to the closer body using the door closer bolt. Tighten the bolt until the arm is secure, but ensure not to over tighten. Check that the arm can move with little resistance, loosening the bolt if necessary.

Note. The two diagrams below give an example of how the backplate assembly should look at this stage.

Clockwise Opening

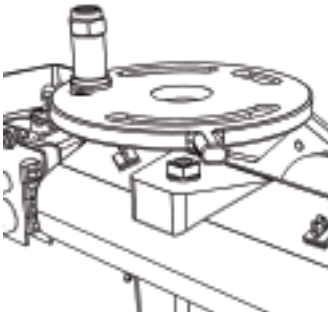


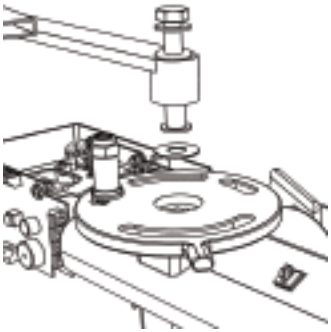
Anti-clockwise Opening



Installation - Closer Arm Installation

Push Side





1. Place the radial arm with the newly fitted radial arm bolt on the square pinion of the closer so that the radial arm nib sits at a 45 degree angle to the backplate, facing toward where the hinge will sit.

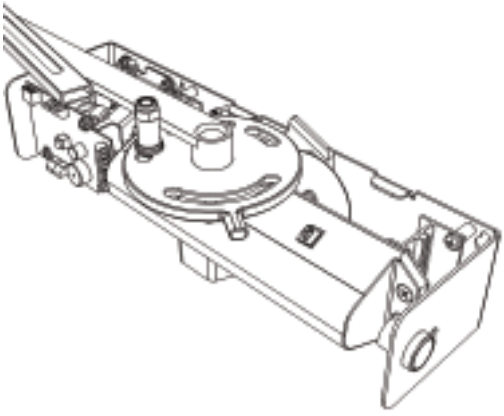
2. Take the largest metal washer from the door closer arm pivot pack and place it on the central recess of the radial arm.

3. Push the nylon shoulder washer into the door closer arm from the flat bottom side. Place the door closer arm atop the radial arm, ensuring the door closer arm sits between the backplate and the radial arm bolt.

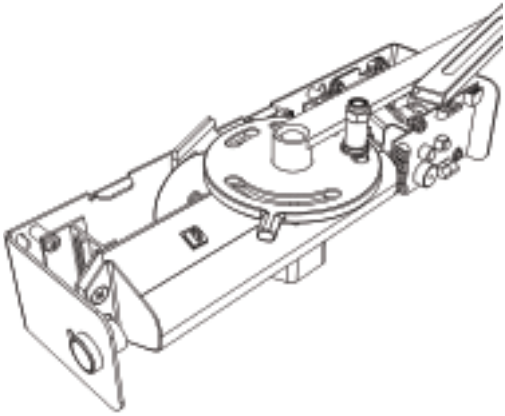
4. Place the nylon washer and metal washer into the door closer arm (in that order). Tighten the door closer arm to the closer body using the door closer bolt. Tighten the bolt until the arm is secure, but ensure not to over tighten. Check that the arm can move with little resistance, loosening the bolt if necessary.

Note. The two diagrams below give an example of how the backplate assembly should look at this stage.

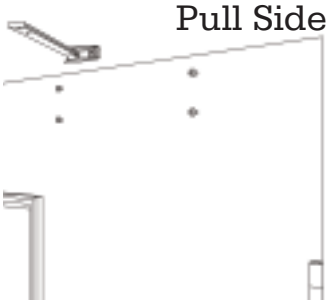
Clockwise Opening



Anti-clockwise Opening



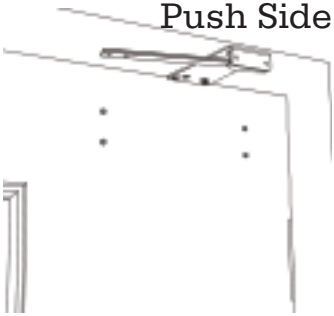
Installation - Mounting Freedor



1. Place the fitting template against the door with the desired orientation facing you (template A for pull side installation and template B for push side installation).

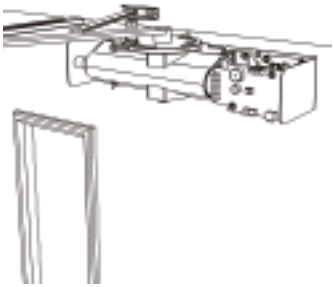
2. Fold the template along the upper fold line and hold it on the door, following the instructions for correct placement.

3. Mark through the template in the desired locations for the Freedor body and wall mount closer arm fixtures. Make pilot holes using a 3mm drill bit and an electric drill in the marked holes.



4. Insert a Freedor fitting screw into each of the 4 pilot holes made in the door. Leave a gap of approximately 5mm under the screw head.

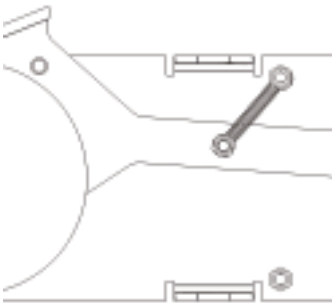
5. Unscrew the two hex head screws connecting the two closer arm parts together.



6.A. **Pull Side Installation**. Using the two closer arm fitting screws, affix the wall mount closer arm to the door frame following the template for correct orientation.

OR

6.B. **Push Side Installation**. Take the wall mount closer arm and affix this to the parallel arm bracket using the short screws included in the same pack as the bracket fitting screws. Using the four parallel arm bracket screws, affix the parallel arm bracket to the underside of the door frame.

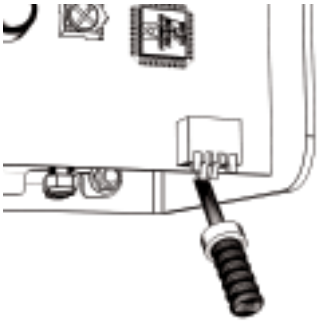


7. Hang the backplate assembly on the door using the screws affixed in step 4. Secure Freedor to the door by tightening the screws.

8. Locate the 2 claw springs connected between the claw and the backplate. Disconnect the lowest claw spring from the backplate, allowing the upper most spring to pull the claw upwards.

9. Attach the battery input wire to the upper wire clip, looping it over the closer so it hangs down behind it.

Installation - Night-Time Release and Self-Test Muting



Freedor can be used to hold a fire door open 24 hours a day. It is recommended however, that fire doors are closed at night as the chance of a fire spreading undetected is greater than during daylight hours.

Setting Night-time Release

1. Identify the 4 Dip Switches on the Freedor electronics board.

2. Using the night-time release table on the left, choose the time range you wish Freedor to enter night-time release. With the black plastic screwdriver supplied, flick the DIP switches toward the PCB for the time range desired.

Dip Switch	Release Time	Reset Time
1	20:00	8:00
2	21:00	7:00
1 and 2	22:00	6:00

If Freedor has closed the door due to the night-time release function, the unit will not enter free-swing mode until the night-time reset is reached. When the night-time reset occurs, Freedor will sound a warning tone and then remain in door closer mode until the user sets Freedor back into free-swing mode.

Note. If neither Dip Switches are moved, Freedor will not release at night-time.

Self-Test Muting

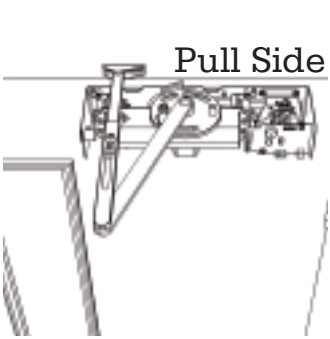
Freedor will undergo a self-test once a week. To warn the user of the door closing, the unit will sound a number of warning tones. If the warning tones of the self-test are an inconvenience, they can be muted by activating Dip switch 3. See the Self-Test section of the Operation and Self-Test page for more information on Freedor's self-tests.

Dip Switch	Self-Test Tones
3 ON	Self-test tones OFF
3 OFF	Self-test tones ON

1. Identify the 4 Dip Switches on the Freedor electronics board.

2. Using the black plastic screwdriver supplier, flick the DIP switch marked 3 toward the PCB to set it to ON.

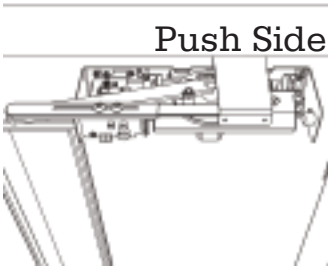
Installation - Closer Speed Adjustment and Cover Assembly



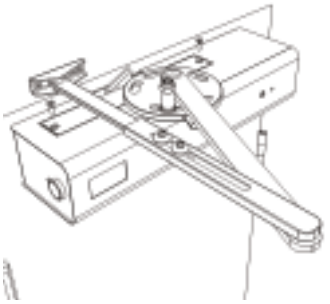
1.A. **Pull Side Installation**. Slide the door closer arm around the wall mount closer arm and pull the door closer arm so that the wall mount closer arm is at a right angle to the door. Secure the arm in this position using the two closer screws.

OR

1.B. **Push Side Installation**. Slide the door closer arm around the wall mount closer arm and pull the door closer arm so that the wall mount closer arm is parallel to the door. Secure the arm in this position using the two closer screws.



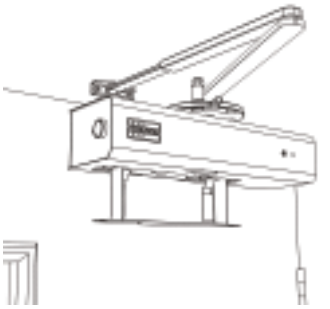
2. Freedor will now act as a door closer, allowing the adjustment of the closing and latching speeds of the closer. To increase the closing rate of either the closing or latching speed, loosen the appropriate regulator bolt; to slow the rate, tighten the regulator bolt. The regulator bolts are located on the closer. The closing speed is governed by the bolt labelled 1 and the latching speed is governed by the bolt labelled 2.



3. Slide the cover over the Freedor body ensuring that the cover is orientated such that the microphone and the sensitivity adjustment holes are over the PCB.

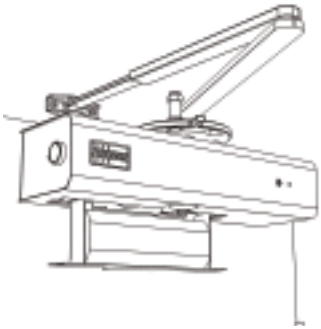
4. Place the Freedor logo sticker on the cover indent and place the plastic pinion cover over the closer pinion.

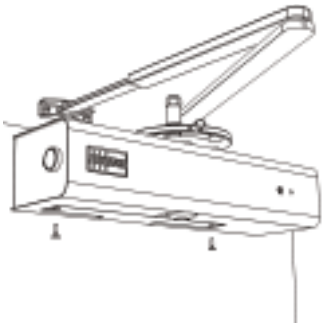
5. Place the blanking plate on top of the cover and secure it with the fixtures removed during the installation preparation.



6. Similar to the removal of the battery lift during the Freedor installation preparation, gently push the battery lift legs towards each other so the battery lift is able to be slid into its original position. Do not secure the battery lift.

Installation - Battery Installation



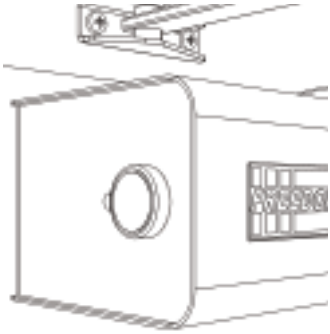


1. With the Freedor fully assembled and closing the door correctly, take the battery pack from the Freedor packaging and connect it to the battery pack connector that should be protruding from the bottom of the cover.

2. With the battery pack connected, place it on the battery lift. Push the battery lift up into the Freedor unit. Secure the battery lift with the fixtures removed during the installation preparation.

3. Once the battery lift is secured and the battery pack is connected, hold the reset button on the side of Freedor down until a continuous tone is heard. At this point release the button and the Freedor start sequence will commence.

Operation and Self-Test



Freedor will operate in one of two modes after installation: either door closer, acting as a typical door closer; or free-swing. Pressing the reset button on the side of the unit will change the mode of Freedor.

To set the door into Free-swing:

1. Make sure Freedor is in the free-swing mode (press the reset button to change modes if required).

2. Open the door past the set angle (as determined during assembly).

3. Gently release the door to allow Freedor to engage at the set angle.

4. If Freedor does not hold at the set angle, press the reset button and repeat steps 2 and 3.

During free-swing operation:

At all angles below the set angle, Freedor will cause the door to act as if no closer were fitted. If the door is opened past the set angle, the door will swing back to the set angle.

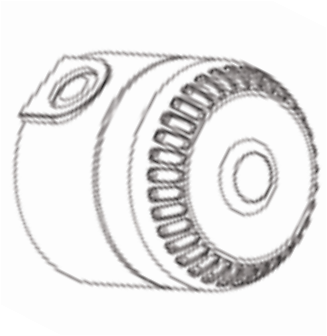
To release Freedor:
Press the reset button to cause Freedor to close the door.

Self Test:

Freedor carries out a self test 6.5 days after battery installation and then every 7 days after that. During the self test, if the fire door is being retained, Freedor will release the door. Should Freedor detect an internal fault (such as low battery), it will sound warning tones, close the door and enter fail-to-safe mode; not allowing free-swing mode until the fault is rectified (such as replacing the battery pack).

Note. If the battery pack is installed at 13:00 on-Wednesday, the initial self test will occur at 01:00 on the Wednesday next week. The weekly self-test will then occur at 01:00 every Wednesday.

Testing Freedor to the Fire Alarm



1. Set Freedor to free-swing mode, open the door past the set angle and allow Freedor to engage.

2. Sound the fire alarm until Freedor causes the door to close.

3. The LED on the side of Freedor should flash every 2 seconds to indicate it is “hearing” the sound of the fire alarm.

4. Freedor should release the fire door in under 20 seconds.

5. When Freedor is ready to release the door, it will sound a “high-low” warning tone, repeated a total of 10 times before releasing the door.

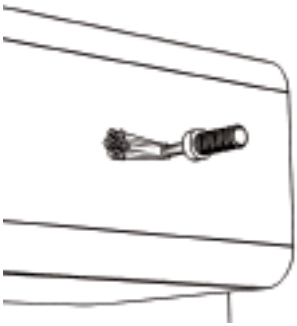
6. After Freedor has released the fire door (and the fire alarm has ceased) it can be reset after 10 seconds.

Note. If Freedor fails to react to the sound of the fire alarm, the sensitivity of the unit will need to be adjusted (see Sensitivity Adjustment).

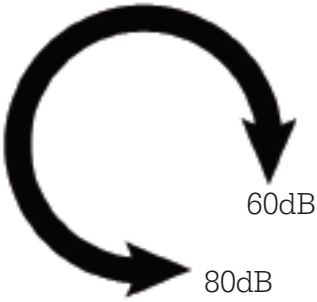
Alterations to the premises i.e. new furniture, new carpets etc., might alter the audibility of the fire alarm. Following alterations, a fire alarm test must be carried out to ensure that Freedor responds.

Despite Freedor self-testing every 7 days, weekly bell tests are highly recommended. This will ensure that Freedor is responding to the fire alarm.

Sensitivity Adjustment



Acoustic Sensitivity
Minimum Release Level



Each environment will vary and Freedor may need adjusting to suit individual conditions.

On identifying a necessary adjustment use the black plastic screwdriver supplied. Take care not to over adjust as this will render the unit inoperative.

Adjusting sensitivity if Freedor is not sensitive enough, i.e. does not respond to the fire alarm:

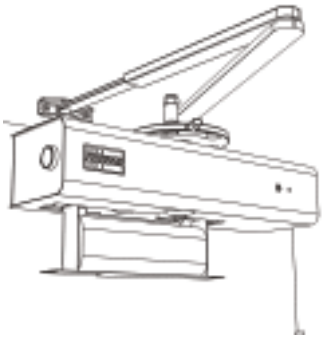
1. Carefully insert the black plastic screwdriver into hole on front of the unit, next to the 7 holes for the microphone.
2. Turn clockwise through no more than 5 degrees (a small adjustment is equivalent to a large alteration in sensitivity).
3. Test Freedor to the fire alarm.
4. If problems persist repeat steps 1-3.

Note. The adjustment screw is limited in both directions, once you can feel resistance against turning - stop to avoid damaging the unit.

If Freedor is too sensitive (responds to no apparent sound) follow steps 1-4, but turn anti-clockwise in Step 2.

Note. When turned completely clockwise, Freedor needs to detect approximately 60dB to register a fire alarm. When turned completely anti-clockwise, Freedor needs to detect approximately 80dB to register a fire alarm.

Battery Pack Replacement



When the product determines that a battery low level has been reached (approximately 18 months), Freedor will fail-to-safe and will not allow the door to enter free-swing mode. If Freedor is sounding a "Hi-Lo Hi-Lo" tone once every 32 seconds, the battery pack will need replacing.

1. Unscrew the 2 screws securing the battery lift and let it gently drop down to expose the battery pack.

2. Remove the battery pack from the unit and disconnect the battery pack connector.

3. Connect the new battery pack and place it on the battery lift. Push the battery lift up into the Freedor unit. Re-secure the battery lift.

4. Hold the reset button on the side of Freedor down until a continuous tone is heard. At this point release the button and the Freedor start sequence will commence.

Note. Battery levels are checked once every 32 seconds in all modes.

Troubleshooting and FAQs

The following questions might be frequently asked;

1. Why is Freedor not releasing when the Fire Alarm sounds?

- Check fire alarm sounds for at least 30 seconds.
- Check fire door is free to close unhindered.
- Check the fire alarm is louder than 65 decibels where the Freedor is fitted.
- Adjust the sensitivity of the Freedor unit (see Sensitivity Adjustment).

2. Why does Freedor release if the fire alarm is not sounding?

- As a safety feature, Freedor has to release to any sound that it "hears" as being continuous and louder than 65 decibels as this sound could potentially mask the sound of a fire alarm.
- Freedor will release every 7 days as part of its self testing routine (see Operation and Self-Test section).
- Check night-time release settings.
- Adjust the sensitivity of the Freedor unit (see Sensitivity Adjustment).
- Check battery pack, is the unit beeping?

3. Why does Freedor not retain the door in an open position?

- Check that the battery lift is closed (secured up to the cover) and the battery pack is correctly installed and operating.
- Check Freedor has not entered fail-to-safe. Remove battery pack and wait 10 seconds before re-inserting it into the Freedor to reset the unit. If all the above points are satisfied and further assistance is required, please contact the Freedor Technical Advice Line.

Troubleshooting and FAQs *continued*

4. Why does Freedor not respond when the reset button is pressed?

- The reset button needs to be pressed for at least 1 second to respond. Hold the reset button for a few seconds and then release.

- Is Freedor beeping? If so the unit has failed to safe, please refer to the Beeps and Flashes pages for information on what the tone sequence means.

- Does a "LoLoHiHi" tone sound after the reset button is pressed? If so, wait 10 seconds and try again. If the second attempt does not work, the unit has failed to safe due to night-time release. The unit will not be usable until the night-time reset is reached.

5. How do I change the night-time release settings or closing speed once Freedor has been installed?

- The cover needs to be removed to access the closer and Dip switches. To remove the cover, follow the instructions found in the Preparing Freedor section.

6. The timing/tones of the self-test is disruptive. How can I fix this?

- During a self-test, if the door is being held-open, it will be released. To stop the sound of the door releasing, ensure Freedor is in door closer mode when the self-test is going to occur.

- The self-test tones can be muted by having the DIP switch 3 set to ON when the unit is powered up.

- The timing of the initial self-test can not be altered from the 6.5 days after the unit is powered up, and 7 days after the initial self-test. To reset the units initial self-test count down, perform a hard-reset. If the hard-reset occurs at 20:00 on a Friday, the initail self-test will occur at 08:00 on the next Friday.

Beeps and Flashes

Beep/Flash Sequence	What it means?	Remedy
During Power up		
Long Lo Tone	Indicates start of power up test.	No action required.
Lo - Lo - Lo	No dip switches have been selected	No action required.
Hi - Lo - Lo	Dip switch 1 has been selected.	No action required.
Lo - Hi - Lo	Dip switch 2 has been selected	No action required.
Hi - Hi - Lo	Dip switches 1 and 2 have been selected	No action required.
Lo - Mid - Hi	Successful self-test	
During standard operation	Key: * LED flash GREEN O LED flash RED	
---(32secs)------(32secs)---*---(32secs)---*---etc.	LED indicates that Freedor is working properly.	No action required.
Hi Lo and HiLo – HiLo – HiLo – HiLo * *-------- *-------- *-------- *	Freedor is preparing to change modes due to the reset button being pressed, self-test or night-time re-lease.	No action required.
HiLo – HiLo – HiLo – HiLo – HiLo – HiLo – HiLo – HiLo O------O------O------O------O------O------O------O HiLo – HiLo O------O	Freedor is preparing to release the door due to a fire alarm	No action required.
LoHi – LoHi – LoHi – LoHi – LoHi – LoHi – LoHi – LoHi O------O------O------O------O------O------O------O – LoHi – LoHi O------O	Freedor is reseting after releasing the door due to a fire alarm.	No action required.

Beeps and Flashes *continued*

Beep/Flash Sequence	What it means?	Remedy
Error Modes Key: * LED flash GREEN O LED flash RED		
Lo – (2secs) – Lo – (2secs) – Lo – (2secs) – etc. O----------O----------O----------etc.	Battery tamper switch not depressed. This will occur during power up but will stop when the battery lift is secured	1. Unfasten the battery lift 2. Disconnect the battery pack 4. Wait 10 seconds 3. Connect the battery pack and secure the battery lift 4. Hold down the reset button to power up Freedor
LoLoHiHi	Reset Button is currently unusable	After each mode change there is a 10 second period where the Reset Button is unusable. Wait 10 seconds and try again. If Freedor has entered fail-safe mode due to night-time release, Freedor will be unusable until the night-time reset time is reached.
HiHiHiHiLoLoLoLo---(4secs)--- HiHiHiHiLoLoLoLo---(4secs)--- etc.	Indicates possible latching fault	1. Open the door past the set angle and check if the door is being held open or not. 2. Press and hold the reset button until a hard reset occurs. 3. Ensure no foreign bodies, such as; wires, debris, etc. are interfering with the device. 4. Replace the battery pack and repeat steps 1-3. 5. Contact Freedor Technical advice line if Freedor holds open the door.
HiLo-------(17 minutes)-- etc.	Low battery mode.	Battery levels are getting close to critical levels. Freedor will function normally until critical battery levels are reached.
HiLoHiLo------(32 secs)--etc.	Critical battery mode.	Battery levels have reached a critical level and Freedor has failed-to-safe. Replace battery pack.

Maintenance Schedule

Preventative maintenance and regular testing will ensure that Freedor functions correctly at all times. Keep the Maintenance Record up to date.

Weekly

Check Freedor is in the free-swing mode, open the door beyond the set angle and allow it to settle back. Sound the fire alarm, before the alarm has sounded for 30 seconds, the door should release to close. If the door does not release, refer to the troubleshooting section.

Monthly

Carry out the weekly test and in addition dust the unit checking that the 7 holes for the microphone are open and clear of any dust, dirt etc. Freedor can be cleaned with a slightly damp cloth.

6 Monthly

Carry out the weekly and monthly schedule and in addition, check:
1. The Freedor unit for signs of wear;
2. The Freedor unit is firmly attached to the door, along with any arm attachments.

Yearly

Carry out the 6 monthly schedule and if possible, check the battery voltage.

Bi-Yearly

Replace battery pack.

Note and Warning

- The unit is designed to detect low battery power or possible faults, it will give a continual warning (sound a series of beeps) and will fail to safe (no longer operate as a hold open device).

- Freedor conducts a self test 6.5 days after connection of the battery pack, thereafter it will self test on a weekly basis. During the self test, if the fire door is held open, Freedor will release the fire door. Should Freedor detect an internal fault it will sound a warning tone and fail to safe.

Maintenance Record

The log sheet below is designed to cover a 12 month period and should be filled out after each alarm test. This log is a formal record of the test and maintenance schedule carried out by a competent (responsible) person(s) throughout the history of the installation of the Freedor unit.

Serial Number: **Location:**

Serial Number is on the back of the Freedor unit.

Installation Date: **Installed by:**

Week	Result	Date	Sign	Week	Result	Date	Sign
1				27			
2				28			
3				29			
4				30			
5				31			
6				32			
7				33			
8				34			
9				35			
10				36			
11				37			
12				38			
13				39			
14				40			
15				41			
16				42			
17				43			
18				44			
19				45			
20				46			
21				47			
22				48			
23				49			
24				50			
25				51			
26				52			

Commissioning Certificate

Certificate of commissioning for the electrically powered hold-open device(s) (please delete as appropriate) at: Address:.....

.....

.....

I/we being person(s) responsible (as indicated by my/our signatures below) for the commissioning of the above, particulars of which are set out below, CERTIFY that the equipment and release arrangements I/we have commissioned complies to the best of my/our knowledge and belief with the recommendations of BS 7273-4:2007 for the category of actuation described below, except for the variations, if any, stated in this certificate.

Name (in block letters):.....Position:.....

Signature:.....Date:.....

For and on behalf of:.....

Address:.....

.....

.....Postcode:.....

The extent of liability of the signatory is limited to the equipment and arrangements described below.

O Category C (acoustically activated Freedor)

Variations for the recommendations of BS 7273-4 (Clause 7).....

.....

.....

Brief description of release mechanisms, method(s) of actuation (see 7273-4:2007, Clause 8) and system design (see BS 7273-4:2007, Clause 10).....

.....

.....

O All equipment operates correctly.

O Installation work is, as far as can reasonably be ascertained, of acceptable standard.

O I/we have carried out commissioning in accordance with recommendations of BS 7273-4:2007, 21.5

O Suitability documentation has been completed before/after (delete as applicable) release mechanisms become operational.....

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Maintenance: it is strongly recommended that, after completion, Freedor is maintained in accordance with BS 7273-4:2007, Clause 22.

User Responsibilities: the user should appoint a responsible person to supervise routine testing of release mechanisms in accordance with BS 7273-4:2007, 22.1 and to supervise all matters pertaining to the associated fire detection and fire alarm system in accordance with BS 5839-1:2002, section 7.

Manufacturer's Warranty

Fireco Limited ("we" and "us") warrants to the customer ("you" and "your") that the product will be free from defects in material and workmanship for a period of 24 months from the date of purchase. If the product is defective whilst under warranty we will, at our option, repair the product or replace it free of charge.

If the product appears to develop a defect while under warranty please first check that the product is being correctly used in accordance with this Fitting and Operating Guide and that the battery packs are functioning. If this does not resolve the problem, please contact us via e-mail or telephone the Freedor Technical Advice line below.

The warranty does not apply to any defect in the product arising from fair wear and tear, wilful damage, accident, negligence by you or any third party, abnormal working conditions, failure to follow the instructions in this guide, misuse or alteration or repair of the product without our prior approval. The warranty does not cover the battery pack which might need to be replaced within the period of the warranty. We will not be liable to you for any loss of profits, administrative inconvenience or indirect or consequential loss or damage arising out of any defect in the product.

Where the products are sold under a consumer transaction (as defined by the UK Consumer Transactions (Restrictions on Statements) Order 1976) your statutory rights are not affected by the terms of this warranty.

FREEDOR

Version 1.3

For Technical Assistance contact the UK Technical Advice line on:
0845 241 7575 (Local Rate) or **+44 (0) 1273 320 688**
e-mail us at **help@firecoltd.com**

www.firecoltd.com

For all other queries please contact your supplier.